



A.D. 1872, 28th AUGUST. N° 2557.

S P E C I F I C A T I O N

OF

EDWIN BUSBY.

RESPIRATORS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.

1873.



A.D. 1872, 28th AUGUST. N° 2557.

Respirators.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Edwin Busby at the Office of the Commissioners of Patents, with his Petition, on the 28th August 1872.

I, EDWIN BUSBY, of Birmingham, in the County of Warwick, Wire
5 Weaver and Respirator Manufacturer, do hereby declare the nature of the said Invention for “IMPROVEMENTS IN RESPIRATORS,” to be as follows:—

My Invention relates to such respirators as are made principally of metal, and consist in constructing and arranging the essential parts of the said respirators in the manner herein-after described.

10 I make the metallic perforated plates through which the expired and inspired air passes of pieces of wire gauze. The upper and lower edges of each of the said pieces of wire gauze are secured in a frame of sheet metal bent to the required curve, the said frame giving great smoothness to the upper and lower edges of the said perforated plate.

15 The respirator is made up of any required number of the said framed perforated plates, which are fixed in the body or case of the respirator in the following manner:—The said body or case of the respirator is

Busby's Improvements in Respirators.

divided vertically by a series of frame-like divisions extending along its upper and lower edges from one end to the other. Between these frame-like divisions the framed perforated plates are inserted and removed by a sliding motion, for the purpose of facilitating which the frame of each of the said perforated plates may be provided with a small tab at its end. By this method of construction the body or case of the respirator although light is very strong and is open only at one end. The perforated plates can be inserted in or removed from the body or case for cleaning or repair, or for regulating the number of the plates required, with the greatest facility. 5 10

Although I have described my Invention in connection with framed plates of wire gauze, yet perforated plates made by stamping may be employed in place of the framed wire gauze plates. In this case the required smooth top and bottom edges may either be produced by a separate frame or by the turning over of the edge of the perforated plate itself. 15

Although I prefer to make the plates slide into the body or case at one end, yet the said plates may be made to slide into the body or case at the top instead of at the end.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1873.